

# **Bespoke Project Design** **Documentation & Technical Brief**

Aiden Bond - Whistl Fulfilment South West  
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# **Bespoke Project**

## **Introduction**

The Bespoke Project software will be designed to streamline the logging of bespoke items, particularly when the processing and fulfilment of these items deviate from standard procedures.

## **Applications & Usage**

- A user has a Goods In delivery of bespoke products which are made to order, these need to be logged.
- The Goods In delivery will have a purchase order number or batch number and could consist of multiple boxes.
- The user will be able to use the application to record the purchase order number/batch number, and all of the SKUs/Orders that came in on that PO/BN as well as which box they were in.
- The application will have a parameter for location, this will be the location where the products will be assigned to. This location will be recorded with the rest of the data and is set by a default parameter.

## **Forms**

- **Login Form**  
The form where users will log into the application
- **Main Form**  
The main for the user will use to record the goods in data
- **Search Form**  
The form where users will be able to search for past records that have been recorded
- **Maintenance Form**  
The form where users will be able to edit and amend past records that have been recorded

## Database Tables

In order to facilitate data logging, the application relies on three essential SQL tables. These tables are responsible for storing recorded data, default parameters, and settings that the application can utilise. The incorporation of default parameters not only accommodates future expansion to additional clients and stock management processes but also ensures the long-term viability of the application.

### BespokeProject\_Details

This table will be used to store the data logged by the user when the app is being used. This table can also be used to report on the logged data for future analysis.

Columns:

- [Batch\_No] [VARCHAR] (24) - This will be the Batch Number
- [BoxID] [VARCHAR] (24) - This will be the BoxID
- [Ref\_No] [VARCHAR] (24) - This will be the order reference
- [Location] [VARCHAR] (6) - This will be the location
- [DT\_Created] [DATETIME] - This will be the date
- [User\_Created] [VARCHAR] (24) - This will be the user
- [Last\_Upd\_User] [VARCHAR] (24) - This will be the last updated user
- [Last\_Updated] - This will be the date the records were last updated

### BespokeProject\_Parameters

This table will be used to store default data that the app will use.

Columns:

- [Parameter] [VARCHAR] (100) - This will be the parameter
- [String\_01] [VARCHAR] (255) - This can be used to store a default string
- [Date\_01] [DATETIME] - This can be used to store a default date
- [Int\_01] [int] - This can be used to store a default int

### BespokeProject\_Locations

This table will be used to store the different locations that can be used within the app.

Columns:

- [Location] [VARCHAR] (6) - This will be PTN & WTN

## Stored Procedures

This application will execute stored procedures in order to operate.

The utilisation of stored procedures ensures that most SQL processes are encapsulated within the database, offering a more straightforward approach to maintenance or modifications when issues arise relating to the database components. Consequently, this approach reduces the need for maintenance within the application itself.

### BespokeProject\_Insert\_Details

This stored procedure will be used on the main form and will contain the main SQL Insert query that inserts the data logged by the user into the SQL database

The application will pass through 5 parameters to the stored procedure:

**@Batch\_No** - This will be the batch number logged by the user.

**@BoxID** - This will be the Box ID logged by the user.

**@Ref\_No** - This will be the reference number logged by the user.

**@User** - This will be the user that logged into the application.

**@Location** - This will be the location pulled through from the default parameters table.

### BespokeProject\_Update\_Details

This stored procedure will be used in the Maintenance Form and will be used to execute the SQL Update query that will update the selected records based on the data inputted by the user. The application will pass through 4 parameters to the stored procedure:

**@Batch\_No** - This will be the batch number the users wishes to update records for.

**@Field** - This will be the field the user wishes to update.

**@New\_Data** - This will be the new data that the selected field will be updated to.

**@Selected\_Records** - This will be a selected records the user wishes to update.

### BespokeProject\_Get\_Details

This stored procedure will be used in the Main Form and will be used to execute an SQL Select query that will populate the history table.

This stored procedure will also be used in the Search Form to gather the data for the search results table.

If the **@BoxID** and the **@Ref\_No** Parameters are NULL the Stored procedure will pull all data relating to the Batch Number. The application will pass through 3 parameters:

**@Batch\_No** - This will be the batch number logged by the user.

**@BoxID** - This will be the Box ID logged by the user.

**@Ref\_No** - This will be the reference number logged by the user.

### **BespokeProject\_Delete\_Details**

This stored procedure will be used in the Maintenance Form and will be used to execute the SQL Delete query that will delete the selected records that have been selected by the user. The application will pass through 2 parameters to the stored procedure:

**@Batch\_No** - This will be the batch number that the user wishes to delete records from.

**@Selected\_Records** - this will be the selected records the user wished to delete.

## **Forms Design**

The application will use a total of 5 forms in order to operate, these forms will allow the user to login to the application, as well as log the required data, search through previously logged data, amend previously logged data and amend default settings and parameters.

# Login Form

The diagram illustrates the layout of a login form titled "Bespoke Project". At the top center is a dark rectangular box labeled "LOGO". Below this is a text input field labeled "Username". At the bottom are two buttons: "Exit" on the left and "Login" on the right. Four callout lines provide additional information: one points to the logo area with the text "This is where the logo will go"; another points to the "Username" input field with the text "Username is entered here"; a third points to the "Exit" button with the text "Exit Button to exit the application"; and a fourth points to the "Login" button with the text "Login button to log into the application".

- This form will be where the user logs in, no password required.
- The username will feed through to the details table when data is logged.
- The username has to be a valid Elucid username.
- The "Exit" button will ask the user if they want to exit, a message will appear saying "Are you sure you want to Exit?"
- The "Login" button will take the user to the Main Form.
- The logo will be the Whistl company logo.

## Required Stored Procedures & SQL

- A validity check is required to make sure the username entered is a valid username in the database.

## Error Handling

- If a user enters an username that is not valid, a message will appear asking for the user to enter a valid username.

## Main Form

The diagram shows a form titled "Bespoke Project - Home". It contains three input fields at the top: "Batch\_No", "BoxID", and "Ref\_No". Below these fields is a table with 6 columns and 6 rows. At the bottom of the form are four buttons: "Exit", "Search", "Maintenance", and "Insert".

Annotations with leader lines point to the following elements:

- Batch Number is entered here (points to Batch\_No)
- Reference Number is entered here (points to Ref\_No)
- Table to display the history (points to the table)
- Button to exit the application (points to Exit)
- Button to take you to the Search Form (points to Search)
- Box ID is entered here (points to BoxID)
- Button to insert the inputted data (points to Insert)
- Button to take you to the Maintenance Form (points to Maintenance)

- This Form is where the user will be able to enter the data to be logged in the database.
- The user will enter a Batch Number, BoxID & Reference Number and when the Tab Key or the "Insert" button is pressed, the data will be inserted into the database.
- Both the Batch Number & BoxID fields will not automatically clear after the insert event. This will allow users to enter multiple references under the same Batch Number & BoxID.
- When a Batch Number is entered the table will populate with records where the Batch Number is the same as the batch number entered.
- When the batch number is entered and the user navigates to the next field, the table will populate with all the data in the BespokeProject\_Details table associated with that batch number.
- As the user inserts records, the table will update with those records.
- The "Exit" button will ask the user if they want to exit, a message will appear saying "Are you sure you want to Exit?"

## Required Stored Procedures & SQL

- BespokeProject\_Insert\_Details
- BespokeProject\_Get\_Details

## Error Handling

- If the user has not completed all the fields before clicking the insert button or pressing the tab key, an error will appear asking the user to make sure all fields are completed.
- If the user enters a Reference Number that is already recorded under the Batch Number and Box ID an error will appear informing the user of a duplicate record.

## Search Form

The diagram shows a form titled "Bespoke Project - Search". It includes a dropdown menu labeled "Field" with a downward arrow, a text input field labeled "Search", a table with 6 columns and 6 rows, and three buttons: "Back", "Clear", and "Search". Annotations point to these elements:

- Select the Field to search by (points to the "Field" dropdown)
- Enter the search term here (points to the "Search" text input)
- Table to show the results (points to the table)
- Button to start the search (points to the "Search" button)
- Button to go back to the Main Form (points to the "Back" button)
- Button to clear the screen (points to the "Clear" button)

- This form will be used to search for records in the BespokeProject\_Details table.
- The user will be able to search based on a selected field & reference, the field will be selected from a drop down box.
- The results will be displayed in the table the same as on the Main Form.

### Required Stored Procedures & SQL

- BespokeProject\_Get\_Details

### Error Handling

- If the user does not enter a search term and/or select a field before clicking the search button, an error will appear asking the user to complete the all fields
- If no records are pulled from the search parameters an error will appear advising the user that no records were found



# Maintenance Form

The diagram illustrates the 'Bespoke Project - Maintenance' form. It features three input fields at the top: 'Batch\_No', 'Field', and 'New Data'. Below these is a table with 6 columns and 6 rows, each with a checkbox in the final column. At the bottom are three buttons: 'Back', 'Delete', and 'Update'. Annotations with leader lines point to various components: 'Select the field you want to update' points to the 'Field' input; 'Batch Number is entered here' points to the 'Batch\_No' input; 'Enter the new data here' points to the 'New Data' input; 'Table with checkboxes to select which record(s) to amend' points to the table; 'Button to go back to the Main Form' points to the 'Back' button; 'Button to delete the checked record(s)' points to the 'Delete' button; and 'Button to execute the update for the checked record(s)' points to the 'Update' button.

**Bespoke Project - Maintenance**

Batch\_No    Field    New Data

						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Back    Delete    Update

- This Form will allow users to amend or delete records in the BespokeProject\_Details table.
- Users will enter the Batch Number, check the checkbox for the record(s) they'd like to amend or delete. If they want to delete the record(s) they will click the "Delete" button. If they'd like to amend the record(s) they can select the field they'd like to update & enter the new data, then click the "Update" button.
- When the batch number is entered and the user navigates to the next field, the table will populate with all the data in the BespokeProject\_Details table associated with that batch number.

## Required Stored Procedures & SQL

- BespokeProject\_Update\_Details
- BespokeProject\_Delete\_Details

## Error Handling

- If the user clicks the update button before completing all the fields and selecting the records they'd like to update, an error will appear asking the user to complete all the fields
- If the user clicks the delete button before completing all the fields and selecting the records they'd like to delete, an error will appear asking the user to complete all the fields

